

Testing in React 18

React Testing Primer



Liam McLennan
Principal Software Engineer
[@liammclennan](https://twitter.com/liammclennan) | withouttheloop.com

Version Check



This version was created by using:

- React 18.2.0
- React Testing Library 13.4.0
- Next.js 12.3.1



Version Check

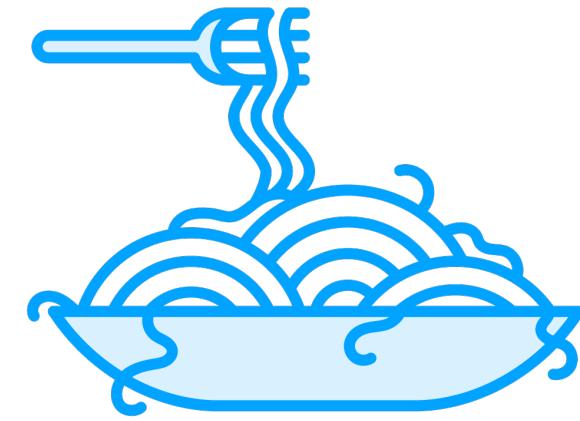


This course is 100% applicable to:

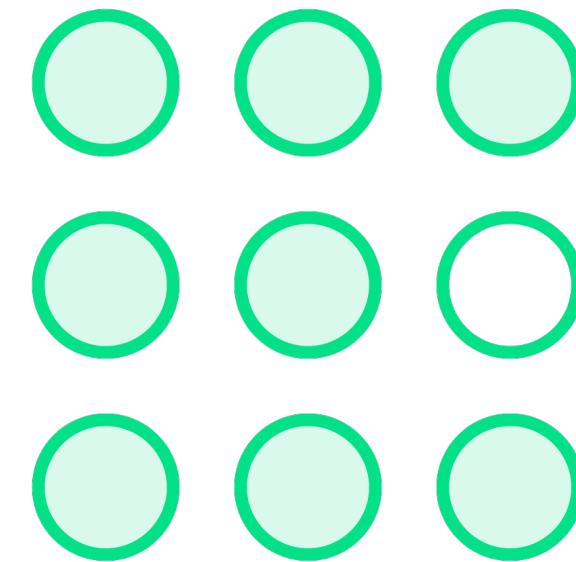
- React 18.2.0 and higher
- React Testing Library 13.4.0 and higher
- Next.js 12.3.1 and higher



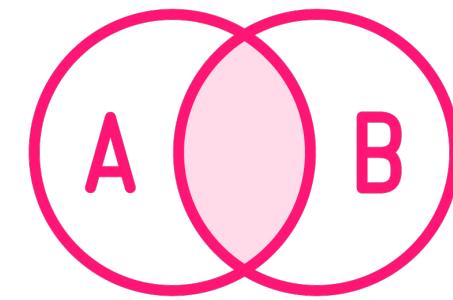
About This Course



“Cookbook” format



Independent modules



React and testing



Assumed Knowledge

JavaScript

React

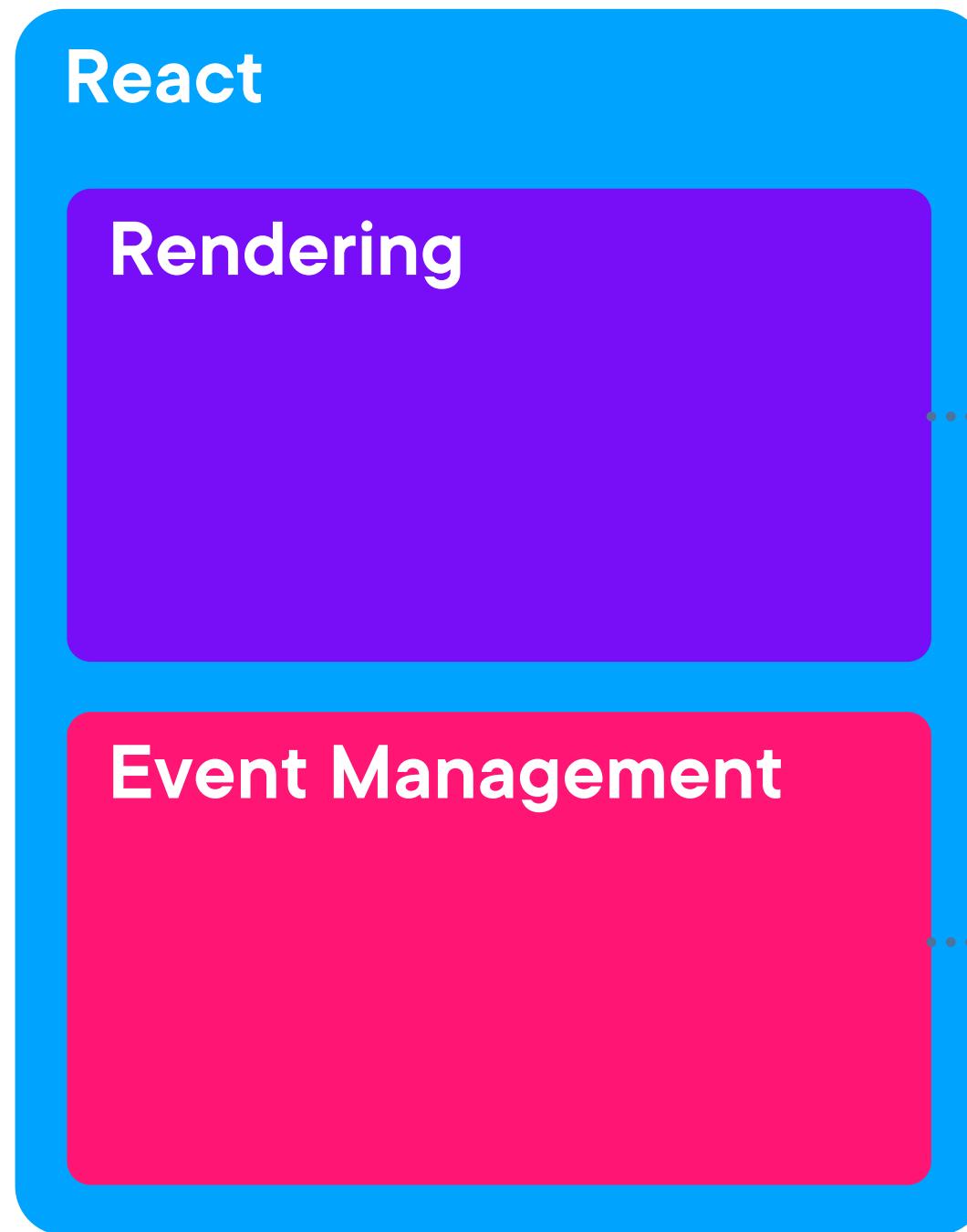
**Automated Software
Testing**

Unit Testing

Jest



Testing React



How We Test



```
const Counter = ({start}) => {
  return (
    <div>{start}</div>
  );
};
```

◀ **Render `<Counter start={1} />` and look for '1' in the rendered result**



```
const Counter = ({start, onIncrement}) => {
  return (
    <div onClick={()=>{ onIncrement(); }}>
      {start}
    </div>
  );
};
```

◀ **Render Counter, simulate a click on the div, and assert that ‘onIncrement’ was called.**



Creating a React Application With a Test

```
> npx create-next-app --example with-jest testing-react
```



Adding Tests to an Existing React Application

```
> npx create-next-app without-tests  
> npm install jest --save-dev
```



Adding Tests to an Existing React Application

package.json

```
{  
  ...  
  "scripts": {  
    "dev": "next dev",  
    "build": "next build",  
    "start": "next start",  
    "lint": "next lint",  
    "test": "jest"  
  }  
  ...  
}
```

```
> npm test
```



Summary

Testing in React

